

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996
From: "Richard L. Duell" <rduell@iac.net>
Subject: 6293
Message-ID: <199607090015.UAA24983@great-miami.iac.net>

I, like Barry, did not respond to the original question re "What are 6293s?" I assumed that one of the BAers would have the stats at their fingertips and would beat me to any punch that I could throw. However, since that hasn't occurred, here's what the RCA Tech Manual #TT-5 says:

Beam Power Tube - Heater cathode type used as rectangular-wave pulse modulator. Rated for service with duty factors up to 0.1 at a maximum averaging time of 10,000 microseconds. Rectangular wave modulator maximum dissipation, 10 watts. Lots of stuff follows about specifics of service, but the big thing that stands out is that they show service voltages on the plate of 2,000 to 3,500 volts. But then, they spend a lot of time talking about duty cycles in microseconds and measuring bulb temperature...

Clearly a cut above a 6146. A Ferrari will haul you to the grocery store just like your Geo Metro. It can do so much more, however.

73, Rich - W5VDU

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996
From: "Joseph W. Pinner" <kc5ijjd@dns1.net-connect.net>
Subject: AN/USM-3A
Message-ID: <199607082107.QAA09218@dns1.net-connect.net>

I just received via UPS and most wonderful little military test set - the USM-3A - through the generosity of a man who found it as part of his father's estate.

It is the most complete of these that I have ever heard of (though I have not seen or heard of more than three or four as they seem to be uncommon). It consists of a set of tools (soldering iron, diagonals, sockets, allen wrenches, lamp puller, flashlight (missing) long nose pliers (missing), screwdriver, tweaser, headset, RF, AF, Resistance meters, signal tracer/voltmeter w/RF probe, noise generator, and tube/capacitor testor. Mine came with manual and tube chart.

The set I received seems to be unusually complete - the few that I have heard of have been missing most of the small tools and book. I feel really fortunate.

There was a brief writeup of this unit in Electric Radio a year or so ago

as part of an article on military test equipment. Its also written up in TM-487H-1. First contract dates were in the late forties and units were produced by Radio Frequency Labs. Mine is missing its nomenclature plate so I don't have a date for it.

Have not really tied things out yet, as the AC cords are a bit old and really need to be reworked or replaced first.

73

Joseph W Pinner
Lafayette, LA
KC5IJD
EMail: kc5ijd@net-connect.net or kc5ijd@aol.com

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996
From: Dave Metz <metzd@cfw.com>
Subject: Re: AN/USM-3A
Message-ID: <2.2.32.19960709004132.006b5d10@milo.cfw.com>

>From Joseph Piner's post:

>I just receivd via UPS and most wonderful little military test set - the
>USM-3A - through the generosity of a man who found it as part of his

Speaking of the USM3..... Is there any chance someone knows of the TM #(probably Navy of course)? I have searched quite a bit and even written the electronics shop at the Philly Naval Shipyard and they too were in a quandry as to the manual for this unit. Matter of fact, they didn't even know of a manual for just the operation let alone any service manual! Also, Walt Hutchins of ER fame has never been able to locate a manual either.

73's Dave
metzd@cfw.com
Staunton, VA

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996
From: w5tvw@juno.com (Sandy Blaize)
Subject: B29, Radios, Wright-Patterson, etc. etc.
Message-ID: <19960708.132222.8095.0.W5TVW@juno.com>

Hello Andy,

The mock up at Wright-Patterson in the Air Force Museum has a BC-348,ART-13

*** I couldn't remember exactly as it's been almost 10 years since I was there!

I agree that the Air Force Museum is a great place to visit. Man is that B-36 a big airplane. You just cannot appreciate how beautiful these old planes are unless you see them close up.

*** I was at Lackland AFB next to Kelly doing basic training when the B-36's were operating out of there! When the great birds took off, the propellers have a very low speed and they look like they are just idling almost! A very awesome sight! I remember the very low propeller 'beat' as well. You could always recognize that a B-36 was flying overhead by the distinct sound. I'd race outside and look waaaaay up there and you'd see it chalking its way along! The ONLY aircraft that was similar in sound at times was the C-124, occasionally they would 'fool' your ears! I understand the zeppelins had diesels with very low propeller RPM as well giving it a low 'beat' sound.

I actually operated the ART-13 and BC-348 in our old National Guard Gooney Bird quite a few times. The tail number was 46029. I don't know where she went. They have C-130's in that duty now. I remember running the ART-13 on 40 meters one night on the way back from Los Vegas to New Orleans in the middle of a thunderstorm. The pilot switched accidentally to the "liason" audio and got very pissed, as the CW audio from the BC-348 was mixing into his audio panel and he was talking to ATC at the time! Needless to say I went QRT suddenly!

73,

Sandy Blaize, W5TVW

Boat Anchors collected, restored, modified, traded & used!

w5tvw@juno.com

417 Ridgewood Drive,

Metairie, LA., 70001.

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996

From: jproc@worldlinux.com

Subject: RE: BA Prices

Message-ID: <Chameleon.4.01.2.960707195929.jproc@jproc>

>Since I did not live through the golden years of the boatanchor, curiosity drove

>me to do a little research into what BAs cost back then in today's dollars.

Mark,

Here's another yardstick to compare costs of today to the past. How many hours would a person have to work in say 1955 to afford the average transmitter/receiver vs having to work in 1996 to obtain something of equal functionality.

Example: My father bought a 21" B&W TV in 1955 which cost \$295. He was making \$1 per hour then. On the average, many hours would a person have to work in 1996 to buy a 26 " colour TV? - A heck of a lot less. In electronics, we definitely get more 'bang' for our buck nowadays. The biggest difference being the elimination of hand labour in wiring up filament strings and individual components.

Regards,

~~~~~  
Jerry Proc VE3FAB  
E-mail: jproc@worldlinx.com  
Radio Restoration Volunteer  
HMCS Haida, Toronto Ontario  
~~~~~

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996
From: berg stephen erik <z931086@corn.cso.niu.edu>
Subject: Re: BA Prices
Message-ID: <Pine.3.89.9607081241.E2373-01000000@corn.cso.niu.edu>

I was initially on the air for less than 50 bucks in 1963. I bought a used Knight T-60, and fixed up an ARC-5 for 40 meters. My Johnson Speed-X key was a major expense. My mother took pity on me and bought a Gotham V-80 vertical antenna for my birthday present, which went up in the yard asap. Even now most of my equipment is used, and I can finally get the radios I wanted so much when I was making \$1.25 an hour in the summers, and buying anything new was just a dream. Modern radios are a bargain, and most boatanchors are cheaper now than when new. Now, if I only had the time to get them all running properly!

73,
Steve WA9JML

z931086@corn.cso.niu.edu

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996
From: Steve Ellington <n4lq@iglou.com>
Subject: Re: BA Prices
Message-ID: <Pine.GS0.3.93.960708153701.5503C-100000@iglou>

> I was initially on the air for less than 50 bucks in 1963. I bought a
> key was a major expense. My mother took pity on me and bought a Gotham
> V-80 vertical antenna for my birthday present, which went up in the yard
> asap. Even now most of my equipment is used, and I can finally get the
> radios I wanted so much when I was making \$1.25 an hour in the summers,
> and buying anything new was just a dream. Modern radios are a bargain,

It was 1963 when I got my novice ticket. My rig came from a ham down the hill. For \$25 I got his DX-20 and NC-100. I dragged them up the snowy street on my sled. Later I too found a Gotham Vertical. Now there's a real BA antenna that anyone could easily replicate with a trip to the hardware store to purchase 18ft of aluminum tubing and a piece of coil stock. My Gotham was mounted on a short piece of pipe driven into the ground. It was so much trouble to change bands that I finally removed the coil and chopped off one foot of tubing making it resonate on 20 meters. I worked the world. Of course back then we had sun spots.

Steve Ellington N4LQ@IGLOU.COM Louisville, Ky

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996
From: Bob Duckworth <rmd@ka4ybr.netmha.com>
Subject: Re: BA Prices (fwd)
Message-ID: <199607081235.IAA28949@ka4ybr.netmha.com>

I got to thinking about this and used prices cause I couldn't afford new when licensed back in High School (Think I was 14 or 15 and that would have been 1968/69)

Remember paying \$125 for a used National RX and \$25 for a used globe DSB sweep tube rig and 50 cents each for a handful of xtals.

I bought my first used car, a 1966 mustang in 1970 for \$500.

I suspect today the Globe might go for \$50 and the National for about what I paid.

Try buying a 66 mustang for \$500.
Try buying any 4 year old auto in good shape for \$500 now.

BA's are a bargain :-)

-bob

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996
From: "Hal R. Waite" <halwaite@netcom.com>
Subject: Boatanchors at Fort Tuthill Hamfest (Flagstaff, AZ)
Message-ID: <Pine.SUN.3.91.960708124259.4607C-100000@netcom13>

The big hamfest at Fort Tuthill has yielded many boatanchors in the past and my hopes are high for this year. I am thinking of hauling several items over there and wonder if there is any interest from other BAers on the list. Perhaps we could arrange to meet each other; it is a three-day affair and worth the ride from Los Angeles, etc.

I have the following to bring (I hate shipping big iron and having it damaged):

NC183D with Matching Speaker: In near-mint shape showing the beautiful paint on the Nationals of that period. Good performance but could use an alignment to calibrate the dial readings.

Central Electronics 200V: In mint shape and a beauty to behold. The audio clipper/filter suffers from the usual battery leakage problem; however, I have removed the two plug-in units and jumpered this connection in accordance with factory instructions. This beautiful unit is for trade only.

The above two units are the finest that I have ever seen!

Eldico 100F in excellent condition but there is a mechanical interference with the VFO travel. This is the one with the 2" tuning scope. \$175

Instructograph in excellent condition with more than 30 Morse tapes.

I'll add some more later including some tube hybrid rigs if I can sneak them in.

Hal K4GFI/7 Las Vegas halwaite@netcom.com

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996
From: "August H. Johnson" <kg7bz@whitemtns.com>
Subject: Re: Boatanchors at Fort Tuthill Hamfest (Flagstaff, AZ)
Message-ID: <31E1A5E0.3330@whitemtns.com>

Hal R. Waite wrote:

>

> The big hamfest at Fort Tuthill has yielded many boatanchors in the past
> and my hopes are high for this year. I am thinking of hauling several
> items over there and wonder if there is any interest from other BAers on
> the list. Perhaps we could arrange to meet each other; it is a three-day
> affair and worth the ride from Los Angeles, etc.

>

I'm going to be there! I'm not bringing any BA stuff to sell but will be
disposing
of sand stuff and computer (ugh) junk. Then I can afford to get some more
firebottle parts. I think I've got enough pre-assembled stuff for now but I sure
like homebrewing things. I'll be in space RJ-07.

August Johnson KG7BZ
Pinetop, AZ
AMI 733

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996
From: w7ni@teleport.com (Stan Griffiths)
Subject: Re: Caps & Comments
Message-ID: <199607082322.QAA10541@desiree.teleport.com>

>2. On a more serious note, I gotta ask a dumb question - - when one
>recaps a BA, what do you replace all those old tubular paper caps with?
>My '67 390A is loaded with 'em. I mean, you can still buy NOS and very
>similar looking tubular caps from Antique Electronic Supply, for
>instance, but what are the chances they'll be any better than the old
>ones you remove?

Hi Dan,

When I face the same problem in restoring an early Tek scope, I buy new
stock axial lead mylar tublars that are about the same size and seem to be
very reliable. Of course they don't look exactly the same, but if I have to
choose between performance and appearance, performance wins around here.

I really believe that a good artist with a brush could actually hand paint
modern mylar caps to look like old "black beauty" caps complete with color

bands and all. Then you could have performance AND appearance.

Stan w7ni@teleport.com

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996
From: "Andy Howard, WA4KCY" <102452.362@CompuServe.COM>
Subject: Copy of: Re: BC-611 Case Query on BA Listing
Message-ID: <960708121616_102452.362_DHT69-2@CompuServe.COM>

----- Forwarded Message -----

From: Andy Howard, WA4KCY, 102452,362
TO: Williams, INTERNET:willi6@erols.com
DATE: 7/8/96 10:59 AM

RE: Copy of: Re: BC-611 Case Query on BA Listing

> >
> >Andy,
>
> Well, it sounds as if you are on the right track. Re the "holes", you
> probably have one or more versions of the tech manual for the units. There
> is a section in those that talks about gutting an old case and drilling
> holes for alignment purposes. Perhaps that is one of the things you have in
> mind.
>
> My BC-611 goal is to find some additional info on the mounting rack and
> modifications that were used to adapt the BC-611 for use in the old Troop
> Gliders during WW-II. I came across one vague reference and have never been
> able to locate it again. The gentleman I mentioned in MO had some
> additional info but no specifics.
>
> Have fun! Cheers! Dave
> >

That is exactly what I intend to do Dave. I have discovered some very valuable information concerning the IF transformers. Most of the sets I have seen are inoperable because of IF transformers with open windings. I have developed a method of repairing these and have a set that I repaired both windings in both IF's. It is not working fine except for a slight bit of tweaking up which has to be done with the chassis in the case. I have a book that shows exactly where to drill the holes. If I can find an old case I can really make these sets work properly. I have a new one that is still in the box and has the paper covers over

the mike and earphone. Did you see my home page? It is the last picture on the page.

<http://ourworld.compuserve.com/homepages/sweetbay>

I have also heard about the glider version. I have the padded case which I bought from a fellow in New Jersey. It was still in the box. I believe that it was a parachute jump case and also since it has a small slot at the bottom (where the "F" model has the jacks for earphone and antenna) I believe it to be a direction finding case as well.

I have a total of 4 BC-611's and an extra chassis that at the moment needs the IF's repaired. I believe that to be the only problem except for an antenna and a set of tubes. I robbed the tubes from it and they were all above the minimum performance in the TV2.

Keep me informed as to your progress. I would like to keep a list of all who have the 611's. They are certainly fascinating sets. Quite an achievement for the early 40's. Shame they did not utilize a higher frequency. A 39 inch antenna is not very efficient on 3885.

Regards,

Andy Howard, WA4KCY

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996
From: Spencer Petri <spetri@e-tex.com>
Subject: Re:CW Offset
Message-ID: <m0ud0Vx-0002FeC@e-tex.com>

I use CW very little on the NCX-5, but I seem to remember that the offset seemed about right. However it has no narrow filter. My CW setup consists of a 100V and NC-303. Makes a nice pair.

73 de Pete WA5JCI

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996
From: MODSTEPH@ACS.EKU.EDU
Subject: Re: Drake 2B -"If it seems too good..."
Message-ID: <01I6U7Q88S7C000DF0@ACS.EKU.EDU>

..so it was not the bias pot with a leakage to ground.
All tubes tested OK with no shorts, but will still try
substitution of all in AVC string to see if that might pick

something up...

Noticed that bias starts all right, then after about three minutes starts to drop off - also that it is apparently downstream from the RF Gain control, which would put it on the tubes side of the AVC...

And have you ever wondered why prior problem experience rarely prepares you for the next one... It continues to be something you have not encountered before!

73, Al N5AIT
modsteph@acs.eku.edu

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996
From: Morris Odell <morriso@vifp.monash.edu.au>
Subject: Re: Drake 2B -"If it seems too good..."
Message-ID: <199607090042.KAA22025@vifp.monash.edu.au>

Hi,

> ..so it was not the bias pot with a leakage to ground.
> All tubes tested OK with no shorts, but will still try
> substitution of all in AVC string to see if that might pick
> something up...
>
> Noticed that bias starts all right, then after about three minutes
> starts to drop off - also that it is apparently downstream from the
> RF Gain control, which would put it on the tubes side of the AVC...

This sounds like a gassy tube somewhere in the AVC controlled part of the Rx. I would substitute tubes one by one in the RF/IF strip and leave them a while to see what happens as they get hot. Sometimes tube tester tests are not adequate. As someone else here said, the best test of a tube is to see if it works in the circuit it was designed into.

73

Morris Odell VK3DOC Melbourne, Australia
morriso@vifp.monash.edu.au
<http://www.vifp.monash.edu.au/CFM/staff/mo.html>
Waffling for myself and not my employer.....

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996
From: jkh@lexis-nexis.com (John Heck)

Subject: DX-20 Screen Modulator
Message-ID: <9607081512.AA09139@beans.lexis-nexis.com>

Picked up a few old copies of Popular Electronics(1959-60) at a garage sale and found a description of a screen modulator for the DX-20. My DX-20 information indicates that Heath did not make provision for voice modulation in the DX-20, but this article shows the schematic of the E.F. Johnson Model 250-40 screen modulator kit, and shows a mod for it and also describes how it is to be connected to the DX-20's innards. With the tubeless VFO in the other article and this mod, the DX-20 begins to take on a new dimension. The modulator described uses a 12AX7 and a 12AU7 and takes it's power from the DX-20 via standard octal plugs, and has a AM-CW switch as it's only control. Anyone who would like to have a copy of this mod need only send me a SASE and I'll get it in the mail.
John Heck
1009 Donson Drive
Dayton, Ohio 45429

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996
From: jkh@lexis-nexis.com (John Heck)
Subject: DX-20 Tubeless VFO for 80/40 or 40/20M
Message-ID: <9607081500.AA09125@beans.lexis-nexis.com>

Picked up a few garage sale Popular Electronics(1959-60) over the weekend and noticed a VFO mod which might work out nicely for those who are reluctant to spring for the FT-243's. It is tubeless and there are two versions, one for 80/20 meters and one for 40/20 meters. The 80/40 version uses a broadcast 365pf variable and a homemade coil, and the 40/20 uses a 100 pf variable, ditto the coil. The VFO is simply plugged into the crystal socket of the DX-20 using the plug from a discarded FT-243. If anyone wants a copy of this article just send a SASE to:
John Heck
1009 Donson Drive
Dayton, Ohio 45429

and I'll be happy to slip one in the mail to you.

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996
From: n5off@w5ddl.aara.org
Subject: FiFi BA's of 1980
Message-ID: <412042@w5ddl.aara.org>

I went on board FiFi to take some pics in 1980. As I recall there were no BA's on board at all at that time. I was impressed by how good the inside looked, though, and was just happy to get this rare shot.

After the Kee Bird incident in Greenland, I was all over the Internet trying to get BA photos out of the Nova and other crew members. No joy. The photos are out there, just rare as hen's teeth.

73 de tom

Still Wanting: BC-348 New Condition
Keeper of Collins receiver contract data for BA.
Reply to: n5off@w5ddl.aara.org@usl.edu
Phone 318-989-3430

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996
From: w5tvw@juno.com (Sandy Blaize)
Subject: Re: Fifi Boatanchors (B29)
Message-ID: <19960707.191342.8095.2.W5TVW@juno.com>

The B24 that's flying all over the country has the CORRECT radio in it, although it isn't operational! Also in the cockpit is still a control box for the SCR-522 VHF set! I have visited it both times it came to New Orleans. The B-17 that came with it last time had a more-or-less complete "liason" installation (BC-375/BC-348) and most of the "command" sets (SCR-274N). The radios in the B-17 were very raggedy and pathetic looking though. From what I understand, some B-29's had the BC-348/BC-375 combinations and some had the ART-13/BC-348 combination. For the life of me, I can't recall what was in the walk-thru B-29 fuselage at Wright-Patterson in Dayton!

Anyone who goes to the Dayton Hamfest and doesn't go to the Wright-Patterson exhibit, AND the two hangers full of other warbirds, that person hasn't REALLY been to Dayton! I plan on spending much more time there than the fest if I ever get to go again!

73,

Sandy Blaize, W5TVW
Boat Anchors collected, restored, modified, traded & used!
w5tvw@juno.com
417 Ridgewood Drive,

Metairie, LA., 70001.

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996
From: Karan Lee Carruth <klccarru@tenet.edu>
Subject: Re: Fifi Boatanchors (B29)
Message-ID: <Pine.OSF.3.91.960707192822.20774C-100000@gaston.tenet.edu>

Yes, the BC-348 was the proper receiver for the B-29. Don't know if it used the "R" version or not, though.

It's a real shame those guys don't want to restore the inside of that aircraft. Thankfully, the B-17 people and the Collings (sp?) foundation B-24 have fairly good interior restorations. The guys doing the Memphis Belle are determined to make it just like it came from the factory.

Those of use in the Confederate Air Force who are willing to restore the radio compartment of the B-29 have asked them on several occasions but they are just not interested. They seem to believe that the outside of the aircraft is all that exists! Some heads are hard. Write them a letter and complain.

That's my two-cents worth and its worth exactly what you paid for it.

Lenox, WA50VG, Life Member and Rated Pilot, Confederate Air Force; Life Member Memphis Belle Memorial Association

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996
From: Jack Ray <k4mzw@akorn.net>
Subject: For Sale.....Reluctantly
Message-ID: <31E1BAA5.6FE5@akorn.net>

Hey Gang; I'm trying to make room for some new acquisitions, and as such must make some room. The following need good homes:

Collins	312B-4 winged 8 1/2- 9	\$ 175.00
National	NC2-40D with Matching Speaker Excellent	300.00
Heath	TX-1 Apache small rust on feet of cabinet	
	missing dial glass looks good otherwise	250.00
Eico	720 with Matching Modulator "Good"	125.00

All above include shipping to USA.

Regards..... Jack

--

I would be happy for it to find a new home. I will let whoever makes the best offer by this Friday, 12 July, have it. Mostly, I need enough to pack and ship it unless you want to pick it up in Dallas, Texas.

Lenox, WA50VG
klccarru@tenet.edu

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996
From: aculbert@pps1-po.phyp.uiowa.edu
Subject: FS: CRYSTALS
Message-ID: <199607081408.JAA18880@ns-mx.uiowa.edu>

While looking for a long lost item in the garage, I came across another bunch of crystals that are definitely surplus to my needs.

Lot #1 25 crystals (.486" spacing with .095" diameter pins) assorted frequencies in 3 to 8 Mcs range (none in 80 or 40 meter ham bands). A few duplicate frequencies noted. \$15 shipped to CONUS.

Lot #2 15 crystals in FT-243 mounts. Frequencies in the 5 to 8 Mcs. range (none in 40 meter band). Various old name manufacturers: Petersen, Standard Piezo, Valpey, Scientific, Bliley, Beaumont, Hunt, etc. \$15 shipped to CONUS.

Lot #3 21 crystals in FT-243 mounts. All with 8 Mcs. frequencies for use in 6 meter BA rigs. A few duplicate frequencies noted. Manufacturers noted were US Crystals, John Meck, Petersen, James Knights, Scientific, etc. \$40 shipped in CONUS.

Lot #4 A sack of more than 50 crystals in metal cans CR-18, HC-25, HC-6, etc. Probably a dog from every town. \$5 WITH any of the above lots.

73,

Al, KOAL

allan-culbert@uiowa.edu

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996
From: Paul_Bocci-CPB007@email.mot.com
Subject: Hallicrafters Parts
Message-ID: <"Macintosh */PRMD=MOT/ADMD=MOT/C=US/"@MHS>

Hi Folks'

At the Wheaton hamfest I found a few old Hallicrafters parts that I thought might be of use to someone. They are a tuning dial that looks like it might be the main tuning dial from a SX99, part number 83-560; and a small black knob that might also be from an SX99, part number 15-A-049. The knob looks like it might have once had a chrome insert in the front. If it did, it is now missing.

If anyone has need for these they are available for cost plus expenses, in other words cheap.

Paul, K9NO

CPB007@email.mot.com

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996
From: "F r6fqHo!ht" <75121.100@CompuServe.COM>
Subject: Hallicrafters PS
Message-ID: <960708070949_75121.100_FHI31-1@CompuServe.COM>

Hello Hallicrafter Guru's wherever you are!

Have come across another BA and this is a Hallicrafters. It is a Hallicrafters Power Supply Model MHS400.

On the rear is the standard Mil connector for power, the three pin connector. Also there are 4 BNC connectors that are marked 2-3 MC out, 100 KC out, 1 MC out and 1 MC in. And of course the venerable B+ fuse.

On the front is a Digital (mechanical wheels) for the frequency readout. On the left side is the band switch A, B, C and D. The band display (4 rows) are marked A-16 to 34 MC, B-8 to 16 MC, C-4 to 8 MC, and D-2 to 4 MC. This doesn't sound like a Power Supply. Above the frequency display wheels is a small RF level meter. The only other knob is a dial that, when turned, turns all the frequency dials simultaneously. All 4 bands, in other words turn at the same time. The dial only says 1KC on it. The dial is bright red and reminds me of the fine tuning dial on the R-1051 for fine tuning. What is this thing that I have?

The guy I got this from also has a working transmitter from the Lunar Excursion Module (LEM) but wouldn't get rid of that jewel. It was an x-band transmitter if I remember him right. Beautiful gold casting and all. (I assume gold plated of course.)

Regards from Hawaii,
Raymond J. Cote

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996
From: John Kolb <jlkolb@cts.com>
Subject: Re: Hallicrafters PS
Message-ID: <Pine.SCO.3.91.960708082932.4449A-100000@sd.cts.com>

On Mon, 8 Jul 1996, F r6fqHo!ht wrote:

> Hello Hallicrafter Guru's wherever you are!
>
> Have come across another BA and this is a Hallicrafters. It is a
> Hallicrafters Power Supply Model MHS400.
> On the front is a Digital (mechanical wheels) for the frequency
> readout. On the left side is the band switch A, B, C and D. The band display (4
> rows) are marked A-16 to 34 MC, B-8 to 16 MC, C-4 to 8 MC, and D-2 to 4 MC. This

Sounds like a Hallicrafters Freq synthesizer of some sort. Think I remember seeing a picture of one in Moore's Communications Receiver book.

We had one in the transmitter room aboard the flagship in the Navy, connected to a locked cabinet so secret we never did learn what was in it.

John Kolb KK6IL jlkolb@cts.com

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996
From: "David L. Thompson" <thompson@mindspring.com>
Subject: HC-10 manual copies
Message-ID: <199607080321.XAA28344@answerman.mindspring.com>

Gang,

I have many replies on the HC-10 manual copies. Instead of answering each (at this time) I will make a summary answer.

First, you have a choice: \$8 postpaid First Class or \$10
priority mail.

Send checks to:

David L. Thompson, K4JRB
4166 Mill Stone Court
Norcross, GA 30092

I will try to get the original post up in the archives, too.

Dave K4JRB

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996
From: wj5j@juno.com (John D Hensley)
Subject: Help request relayed: R-988/BRR-3 & Navy ELF system
Message-ID: <19960707.232530.4711.2.wj5j@juno.com>

This message is being relayed to the Boatanchor Net:

-----message follows-----
Subject: BRR-3 Manual

...Would you have or know where I can get a repair manual
for a R-988/BRR-3 ? This is a Navy surplus VLF receiver
made about 1960 by ITT Federal Labs. I tried both ITT and
the Naval Research Labs, but neither could help. Also, do you
know where I could get either a radio or a manual or both for the
Navy ELF system? The only one that I know of is the URM-41,
but there must be newer models

Chip Veres
WB40QN
< veresc @ mail.firn.edu >

-----end of relayed message-----

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996
From: Andy Wallace <wallace@mc.com>
Subject: HQ-170 IF cans layout diagram????
Message-ID: <9607082100.AA00344@taku>

Hi, folks...

Anyone with an HQ-170 manual must have noticed that
the tubes are numbered in the layout diagram, but the
bloody CANS are not! This is going to make alignment
"fun."

Has anyone already gone through the schematic
and figured this out? Anyone want to send me
an ASCII diagram of the thing? It would be most
helpful.

If not then I will do it and then put it up on

the Porch for all to enjoy.....!

Shame on Hammarlund!

73,
--Andy
wallace@mc.com

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996
From: knudsen@gvmail.ih.lucent.com
Subject: HQ-170 IF cans layout diagram????
Message-ID: <9607082248.AA16692@bock.ih.lucent.com>

Sorry to hear that, Wally.
My HQ-180 layout shows the coil can numbers.
However, I think it may be a separate diagram
from the one that shows tubes.

I've seen schematics (not Hammarlund!) that don't give the coil
numbers on the schematic -- so you can read the alignment instructions
and follow them like a good soldier, but can't figure out what
you're aligning and why!

BTW, SAMS folders always seem to have the tubes
and alignment points numbered in separate pictures,
but the alignment point numbers (not the same as the coil nos)
are always shown on the schematic.
73, mike k aa9rg

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996
From: Andy Wallace <wallace@mc.com>
Subject: HQ-170 still arcy sparky
Message-ID: <9607080205.AA06149@daffy>

Waah.

There. I feel better now!

Well it took about an hour of tuning around but then I
smelled the unmistakable odor of burning cap. Looks like
T1 is still shorted inside. I am assuming it's the small
cap inside; if the transformer had shorted it would have
burned open by now and not be intermittent.

First question is, how do I get the transformer out? I can't

seem to figure out how those cans are clipped in. Unsoldering is the (tedious but) obvious part, but if I can unclip the can it won't do any good... Has anyone been down this road? I assume they went IN fairly easily!

Once it's out in the open it should be obvious what's happening. If not, I do have a microscope.

Still looking for info on the noise blanker, of course -- I want to get a working rig out of this if it's the last thing I do. Nyuk, nyuk, nyuk!

73,
--Andy
wallace@mc.com

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996
From: Andy Wallace <wallace@mc.com>
Subject: Re: HQ-170 still arcy sparky
Message-ID: <9607080234.AA06187@daffy>

uh, slight correction: it should have read, "if I _can't_ unclip the can [unsoldering] won't do any good" ...

Somebody slipped me an Enigma when I wasn't looking!

--Andy

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996
From: "Grant Youngman" <nq5t@gte.net>
Subject: Re: HQ-170 still arcy sparky
Message-ID: <199607080240.VAA20108@uro.theporch.com>

>
> First question is, how do I get the transformer out?

Its relatively easy. Unsolder everything from the pins. There's a metal clip that holds the can in place. It fits up from under the chassis through slots next to the can. You can release it by gently prying on one or both sides of the clip where it attaches to the can on the side. It has small teeth which lock into the v-shaped slot in the sides of the can. Just make sure you get the orientation of the can noted, so you can get it back in the right way.

The path to getting the guts out of the can will be obvious once you

have it off the chassis. There are small clips underneath which hold the can to the coil base -- these can be bent out to release the innards.

Once inside, they are pretty easy to work on. Its all much easier to do than it is to describe -- except for getting everything off of the pins, which can be a b*tch, depending on which can you're working on :-)

Grant/NQ5T

Grant Youngman -- NQ5T
nq5t@gte.net
<http://home1.gte.net/nq5t/index.htm>

Beautiful downtown Double Oak, TX - nr Dallas

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996
From: John Shriver <jas@shiva.com>
Subject: Re: HQ-170 still arcy sparky
Message-ID: <199607081336.JAA09711@shiva-dev.shiva.com>

Another point, the capacitors may not be discrete dipped or disc ones. They may be little silvered mica wafers inside the base plastic of the IF can. There's a good article on dealing with those beasts (which usually fail open!) in Antique Radio Classified:

Sep 92 : Restoration Topics : Repairing I.F. Transformers by Daniel Schoo

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996
From: Jay Coward <jayc@hpmsd2.sj.hp.com>
Subject: info needed for friend
Message-ID: <9607082123.AA06581@hpmsd2.sj.hp.com>

Greetings Anchorites,
A friend who does not have e-mail asked me to post this request. He is looking for information, manuals and/or schematicson the following radios:

R.1082.Ref#10D/8415 some sort of British set as there is a crown on the data plate, has plug-in coils 111kc to 15mc

BC-310 this one covers 200kc to 1500kc and seems to be aircraft DF set

If any has any knowledge on these sets please e-mail me directly and I will pass it on or get you in touch with my friend.

Thanks

73 Jay KE6PPF

--

NOTIFY PILOT BEFORE UNLOCKING AUTOTUNE

HEWLETT	John Jay Coward	39201 Cherry Street	MS NK10
PACKARD	jayc@hpmsd2.sj.hp.com	Newark, California	94560
Communications Components Division		510-505-5614	Fax 510-505-5560

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996

From: hagelin@magi.com (Richard Brisson)

Subject: Jan '25 Radio News

Message-ID: <199607080039.UAA26570@istar.ca>

Would anyone have the January 1925 issue of Radio News by Hugo Gernsbach ?

Richard.

Collector of Crypto Gear and Rotors
HAGELIN GRETAG HEBERN KLEINSCHMIDT ENIGMA KRYHA M-94 M-209
SIEMENS & HALSKE CRYPTO AG TELETYPE Corp SLIDEX
hagelin@magi.com

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996

From: hagelin@magi.com (Richard Brisson)

Subject: Re: Jan '25 Radio News

Message-ID: <199607082120.RAA12485@istar.ca>

Would anyone have the January 1925 issue of Radio News by Hugo Gernsbach ?
I wanted to mention the name/call yesterday but waited until I received his permission. This would be for Fred Hammond (VE3HC) who is looking for it as it is the only issue he is missing from his collection.

Richard.

Collector of Crypto Gear and Rotors
HAGELIN GRETAG HEBERN KLEINSCHMIDT ENIGMA KRYHA M-94 M-209
SIEMENS & HALSKE CRYPTO AG TELETYPE Corp SLIDEX
hagelin@magi.com

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996
From: john <johnmb@borg.mindspring.com>
Subject: Re: Jan '25 Radio News
Message-ID: <2.2.16.19960708203532.367767d8@pop.ral.mindspring.com>

At 04:12 PM 7/8/96 -0500, you wrote:

>
>Would anyone have the January 1925 issue of Radio News by Hugo Gernsbach ?
>I wanted to mention the name/call yesterday but waited until I received
>his permission. This would be for Fred Hammond (VE3HC) who is looking for
>it as it is the only issue he is missing from his collection.
>
>Richard.

I have a copy of the January 1925 issue with a cover photo
of Olga Steck (who?) of the WOR chain, on my desk next to me.
I would be glad to help finish out what must be a remarkable collection.

Regards
/John

+-----+
|John Brewer johnmb@mindspring.com |
|WB50AU/4 AMI #24 |
|Vintage Gear web page: <http://www.zynet.com/~johnb/> |
+-----+

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996
From: pmills@cyberhouse.com (Phil Mills)
Subject: manufacturer's tube labels
Message-ID: <199607082050.PAA09219@ns.cyberhouse.com>

I know that many tube manufacturers labelled tubes with the name and
logo of the tv or radio set manufacturer. However, I came across something
I thought unusual today as I was testing and boxing some old tubes I've

had for years. I found a 12SA7 (Metal, octal based) that was imprinted with Firestone....yes, the tire company. Did Firestone ever make any kind of radio equipment? I have quite a few tubes labelled Delco but I know that those came from old auto radios.

thanks,

Phil

Phil Mills, AB5TH

pmills@cyberhouse.com

713-992-5762

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996

From: Norm Flasch <flasch@cushy.eecs.nwu.edu>

Subject: Re: manufacturer's tube labels

Message-ID: <199607082122.QAA05523@cushy.eecs.nwu.edu>

When I was a kid, my mother would often take me with her to rummage sales. In the 50's, lots of people were unloading nice old consoles. So, there were plenty of them at these sales, sometimes for less than a buck. I loved tagging along and often needed help getting my finds in the trunk.

Sadly now, I do recall a Firestone that was a higher tube count set. I stripped it for parts. Now, a Firestone console is a pretty rare set. Probably have a Firestone tube or two myself in that collection of tubes I am going to get to when I retire.

--

Norm Flasch flasch@eecs.nwu.edu Northwestern University
Electrical Engineering and Computer Science

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996

From: Scott Robinson <spr@earthlink.net>

Subject: Re: manufacturer's tube labels

Message-ID: <31E1ACB5.EA0@earthlink.net>

Phil Mills wrote:

>

> I know that many tube manufacturers labelled tubes with the name and
> logo of the tv or radio set manufacturer. However, I came across something
> I thought unusual today as I was testing and boxing some old tubes I've
> had for years. I found a 12SA7 (Metal, octal based) that was imprinted
> with Firestone....yes, the tire company. Did Firestone ever make any
> kind of radio equipment? I have quite a few tubes labelled Delco but I
> know that those came from old auto radios.

>

>Firestone marketed radios for a while ('30s and '40s, I think), and Delco actually made some home radiso themselves in the '30s.

Regards,

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996
From: Andy Wallace <wallace@mc.com>
Subject: Re: manufacturer's tube labels [Firestone]
Message-ID: <9607082111.AA00350@taku>

----- Begin Included Message -----

From: pmills@cyberhouse.com (Phil Mills)
Subject: manufacturer's tube labels

I found a 12SA7 (Metal, octal based) that was imprinted with Firestone....yes, the tire company. Did Firestone ever make any kind of radio equipment?

----- End Included Message -----

Yes indeed!

I have a Firestone Air Chief table radio from the late 30s. It has three bands, if I remember right, and covers SW up to 10 (?) Mc. It also has a magic eye tube, which is why I bought it -- I was nostalgic over my grandfather's Air Castle brand radio which also had the eye tube.

73,
--Andy
wallace@mc.com

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996
From: "Barry L. Ornitz" <u856010@eastman.com>
Subject: RE: Meter Protection
Message-ID: <Pine.ULT.3.91.960708191508.26132E-100000@dua150.kpt.emn.com>

On Sat, 6 Jul 1996, WB6ZWC wrote:

> The second two meters are also similar in that they are both 50 ohm and
> full scale is 1ma. Therefore they are 50 millivolt meters across the
..
> One of these meters measures plate voltage with a 0-4000 vdc scale. It has

> gone up in smoke years ago and I had to replace it--\$298 and change.

Getting one out of 3 digests is making it difficult to know if someone else already answered this...

I assume you have a 4 meg precision resistor in series with the meter to ground to measure 4 KV (with the meter on the low voltage end of the resistor, naturally). If the ground connection ever comes loose, the meter movement is now 4 KV above ground. A simple way to handle this is to add a 10K resistor from the meter end of the 4 MEG multiplier resistor to ground. The effect on the accuracy will be minimal (approx. 0.5%), but should the meter ground come loose or the meter open internally, the meter movement will be limited to a maximum of 10 volts above ground. In normal operation the meter will never be above 50 mV above ground. While even a small resistor is suitable, a 1 or 2 watt metal film resistor from Digi-Key will insure a high safety factor. Use a separate ground on this resistor (other than that for the meter) to be safe.

73, Barry L. Ornitz WA4VZQ ornitz@eastman.com

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996
From: "Jim Berry" <basalop@eskimo.com>
Subject: Model 33 TTY Machine manuals
Message-ID: <199607080557.WAA20586@mail.eskimo.com>

Hello BA fans,

With the interest in old TTY machines, would anyone have a use for manuals for the Model 33? I have several in binders. Been a number of yeas since I looked at them, but if someone wants them, drop me a note and they are yours for the cost of mailing.

73 Jim K7SLI

Jim Berry K7SLI. QTH: Marysville, Wa (Near Seattle)
Email: basalop@eskimo.com FAX: 360-659-1360
Ham Digital: K7SLI @ K7SLI.#NWWA.WA.USA.NA

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996
From: davemed@ix.netcom.com (David Medley)
Subject: More Mikes

Message-ID: <199607081721.KAA23735@dfw-ix10.ix.netcom.com>

Heres a couple more mikes I found FS:

1. Drake 7073DM hand mike with cable and plug. 9+ condition.
2. Yaesu YM-39 hand mike with touchtone pad cable and plug. 9+ condition.

I still have the Turner 34X case. This is quite old so somebody must want it.

Regards

Dave KI6QE

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996

From: Donald Davis <71411.1534@CompuServe.COM>

Subject: National NCX5 for sale

Message-ID: <960708010602_71411.1534_FHJ67-1@CompuServe.COM>

I have a National NCX5 xceiver with factory power supply and speaker for sale. The radio has been tested on receive only and works on all bands. The writing over a couple of the front panel knobs is worn and a small hole has been drilled in the right side of the front panel. Also, there is a second UHF connector next to the antenna connector on the back panel. The on/off portion of the mode switch will not turn the rig off. There is no mike with the radio. The price for the radio and p/s is \$150 plus shipping. If anyone is interested, please contact me via email. My address is 71411.1534@compuserve.com. Don Davis WBEAXQ

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996

From: lkayser@rideau.net (Larry Kayser)

Subject: NCX-2 Criticism unwarranted!!!!

Message-ID: <199607082319.TAA21421@mail.peterboro.net>

Hey cut it out!!!!

The NCX-3 was fixable in about five minutes!!!! I was handed one of those rigs fresh out of the box in the high arctic and asked to fix it for CW quick. The vfo was wide open, there was an excellent substantial minus supply for the final grid. Quick trip to the stores department got a grungy silicon diode, an RF choke about 2.5 mh, a 25k or 50K pot and some bypasses. I tied the diode upside down to ground through a tiny cap, a few pf to the grid. Took the -bias at about 90 volts or so through 220K to the top of the POT. Bottom of pot to ground, arm to the rfc.

The circuit worked. Took a few minutes and found a place to get the minus voltage only on RX, through the external control relay contacts as I remember it.

The NCX-3 was an excellent and very satisfactory CW rig, the alternative was no ham radio as the commercial rigs were all fixed frequency types. It is not a Ten Tec, neither are KWM2 and others etc.

NCX-3, a great little rig.

Larry
va3lk / wa3zia

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996
From: "Gary H. Harmon, Jr." <gharmon@txdirect.net>
Subject: Need 6JS6 Tubes
Message-ID: <199607082336.SAA00590@legend.txdirect.net>

I need 2 good 6JS6 tubes for a FT-101EE. Anyone have an extra pair for sale or trade?

Thanks much and 73, gary

```
<<<<<<<<<<< T00 many projects, NOT enough time! >>>>>>>>>>>
```

Gary H. Harmon, Jr., K5JWK gharmon@txdirect.net
6302 Robin Forest K5JWK@K3WGF.EL09TN.#SAT.TX.USA.NOAM
San Antonio, TX 78239 (210) 657-1549

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996
From: MODSTEPH@ACS.EKU.EDU
Subject: need Drake 2B schematic and info
Message-ID: <01I6T2XZ6MTE0003F5@ACS.EKU.EDU>

...as the subject says...

My Drake 2B does not go "STANDBY" properly - supposed to do this by placing -18 volts bias on several stages... and somewhere I am losing that (suspect capacitor shorted to ground somewhere).

I have a copy of the manual, but the schematic copy is a poor one. Anyone out there help with a good copy of the schematic, please?

Thanks...

73, A1 N5AIT
modsteph@acs.eku.edu

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996
From: jml@spider.lloyd.com (Jim Lockwood)
Subject: Re: need Drake 2B schematic and info
Message-ID: <m0udFrW-001NchC@spider.lloyd.com>

At 09:30 PM 7/7/96 -0500, MODSTEPH@ACS.EKU.EDU wrote:

> ...as the subject says...
>
> My Drake 2B does not go "STANDBY" properly - supposed to do
>this by placing -18 volts bias on several stages... and somewhere I am
>losing that (suspect capacitor shorted to ground somewhere).
>

One of my Drakes would not mute properly. The S-meter would go up to about 40/9 and the sensitivity would be reduced, but complete muting did not happen. I went nuts (more than usual) looking for bad components such as leaky caps. The culprit turned out to be the 2 meg pot on the rear apron. It had a 2 meg leakage path to ground. That was enough to upset the fragile balance in the bias line and to cause the 2B to not mute properly.

If this is what is happening in your 2B, checking for it is easy. Just untwist the tabs that lock the pot in place mechanically. Pull it away from the chassis and let it hang free. If the receiver now mutes properly, you've found the problem.

The good news is that these pots were still available from Drake last time I checked. That was about 6 months ago.

> I have a copy of the manual, but the schematic copy is a poor
>one. Anyone out there help with a good copy of the schematic, please?
>

Lemme know your address and I'll send you one.

73,

Jim - km6nk

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996
From: EdKnobloch@gnn.com (Edward Knobloch)
Subject: Re: need Drake 2B schematic and info
Message-ID: <199607082052.QAA04017@mail-e2b-service.gnn.com>

> Al N5AFT modsteph@acs.eku.edu reported that
> his Drake 2B would not mute properly.
> He also requested help getting a readable schematic.

My Drake 2B stopped muting, and the fault was a bad
RF amplifier tube, type 6BZ6. It showed up as a "short"
in a TV-7 tube tester, but still appeared to have
full gain in the receiver.

At least up until a few years ago, Drake was still selling
original-quality manuals for the 2B for a reasonable
price.

Hope this helps,

Ed K4PF

edknobloch@gnn.com

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996
From: "F r6fqHo!ht" <75121.100@CompuServe.COM>
Subject: Nems-Clarke stuff found
Message-ID: <960708040111_75121.100_FHI49-2@CompuServe.COM>

Hi gang!

Found quite a few Nems-Clarke BAs this weekend. Time will only tell if
they will be of some use.

1. Found a model 1400 Nems-Clarke Receiver, Telemetry style. Ser #138. Main
problem with this one compared to my other Nems-Clarke gear is that is rack
bound.

It has 4 meters across the top. They are labeled OUT, DEV, TUN and SIG
LEVEL. Below that are knobs labeled OUTPUT, DEV(7.5, 10 and 25), AUDIO, a large
skirted knob 3" diameter labeled +/- 150 KC, a recessed Octal socket for plug-in
freq selection, and last on the second row is MC dial graduated with 128 MC to
142 MC. The lower left of the receiver is a single selector switch labeled IF
SELECT (100 KC-OFF-50 KC). I am not sure what the OUTPUTIT means on a receiver.
Any one have an idea? Do you other Nems-Clarke owners have a book for this
Model?

2. Next a model RFT 90-260 ser 111. It has a hand crank for tuning and is rack

mounted about 3" high. Don't have any other info as I just placed all my find in a 19" 6' rack and wrote down what I could without firing anything up.

3. Next a Model R1071A-1 Ser 125. Labeled as an AM-FM receiver, freq selected by a plug in module. Again not as versatile as some of the others.

4. and a Model 1037A Receiver Ser 306 It has a Demod plug-in labeled FSD 108A ser 112, Did not see any freq range on first inspection.

If any of you Nems-Clarke owners recognize these sparse descriptions, send me a note and I'll give you more info. I didn't want to spend too much time on the list if there are only 1 or 2 interested.

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996

From: "Ray L. Mote" <rmote@rain.org>

Subject: NOS HB-7 headbands from 1942 contract

Message-ID: <Pine.SUN.3.94.960708092350.21732D-100000@coyote.rain.org>

I'm currently working on a small batch of HB-7 headbands for the HS-23 and HS-33 headsets, made by Murdock on contract 14809-PHILA-43 dated November 8, 1942 (printed on the boxes), with the "bailout" cord but no plug. Each one has from 1 to 5 broken rivets, which I'm replacing. I'm told they were found in a warehouse in Greece, then shipped back to the States. A few of them are still in the original wrap inside the boxes, and that leads to my question: Is anyone on BA going to be interested in one of these things still in the wrap (even with foreknowledge of probable broken rivets)? If not, I'll unwrap 'em and get on with the riveting. Thought I'd at least mention it before barging ahead.

73.....Ray Mote, W6RIC <rmote@rain.org> Oxnard, CA

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996

From: "Richard L. Duell" <rduell@iac.net>

Subject: Nostalgia

Message-ID: <199607090031.UAA25067@great-miami.iac.net>

N4LQ wrote:

> My mother took pity on me and bought a Gotham
> V-80 vertical antenna for my birthday present, which went up in the yard
> asap.

Ah, the Gotham antennas. I used to lust after them because they promised so much for so little. But, even that was more than I had. How did it work?

Don't burst my bubble. Tell me they worked DX like crazy and the only reason they aren't still in business is because Cushcraft or HyGain bought them out to take them off the market (ala the 75 mpg carburetor we've all heard about.)

73, Rich - W5VDU

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996
From: "Joseph J. Curry" <71407.1774@CompuServe.COM>
Subject: Phenolic Material
Message-ID: <960708181018_71407.1774_FHV32-1@CompuServe.COM>

Fellow Boatanchorites:

I am looking for some phenolic material to replace an insulator strip for some 50 watt power resistors. My visit to TAP Plastics in Northern California left me with a choice between teflon and delrin as "their best heat resistant plastics". Unfortunately, these were not up to the task and the screws that held the resistors cut through the materials like a hot knife through butter. The counter clerk told me that they don't handle phenolics anymore since there is little demand. There is a lot of printed circuit board material around but it is way too thin.

I have replaced the phenolic with a copper strip through which I have mounted ceramic feedthrough insulators. This will take the heat and no doubt superior to the original design, but I'd like to get the unit back to factory condition if possible. The old design couldn't have been that bad; the strip that was in there lasted 36 years!

I need the phenolic to be between 3/16" and 1/4" thick. The actual strip measurements are 4 1/2" x 3/4" so I don't need very much. Anybody have any such material in their junkbox they'd be willing to sell or does anyone know where I could purchase this material (hopefully in less than a 4'x8' panel)?

Please respond direct to 71407.1774@compuserve.com

Thanks for your help and 73,

Joe
K3ICO

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996

From: "D. Ragsdale" <doragsda@oboe.aix.calpoly.edu>
Subject: Re: Phenolic Material
Message-ID: <9607081945.AA62990@oboe.aix.calpoly.edu>

If you have a local Printed Circuit Board shop, they probably have phenolic in 1/16" thickness (1/8 if you're lucky). Just have them etch the copper off, then laminate two pieces to get the thickness you want. Epoxy should work for laminating them. Good luck.

73
Dave
KF6BOM

>I am looking for some phenolic material to replace an insulator strip for some
>50 watt power resistors.

!

>

>I need the phenolic to be between 3/16" and 1/4" thick. The actual strip
>measurements are 4 1/2" x 3/4" so I don't need very much. Anybody have any such
>material in their junkbox they'd be willing to sell or does anyone know where I
>could purchase this material (hopefully in less than a 4'x8' panel)?

>

>Please respond direct to 71407.1774@compuserve.com

>

>Thanks for your help and 73,

>

>Joe

>K3IC0

>

>

>

David Ragsdale, R.E.H.S. Risk Management
California Polytechnic State University, San Luis Obispo, CA
du651@oasis.calpoly.edu or doragsda@cymbal.aix.calpoly.edu

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996
From: "Ray L. Mote" <rmote@rain.org>
Subject: Phenolics
Message-ID: <Pine.SUN.3.94.960708145649.23513C-1000000@coyote.rain.org>

Try American Plastics Corp., 463 S. Dawson Drive, Camarillo, CA 93010
(805) 484-3333

I've purchased scrap pieces of several types of phenolic & glass epoxy,

delrin, teflon, lexan, etc. from them a number of times. They always have *something* in the scrap bin, even if it's two inches thick! Have also used them as a source of rod stock.

McMaster-Carr also has one helluva selection of the stuff as "Garolite". It comes in several flavors:

- Grade XX - paper phenolic
- Grade C - canvas phenolic
- Grade LE - linen phenolic
- Grade G-10/FR-4 - glass epoxy

They stock 12"x12" sheets up to 1 inch thick in XX, C, LE, and G-10/FR4. Up to 2 inches thick in C. Prices range from \$3+ (XX 1/16" thick) to \$86+ (G-10/FR4 1" thick). They also have 1x2, 2x2, 2x3, and 3x4-ft sizes.

Call or write them at:

McMaster-Carr Supply Co.
P.O. Box 54960
Los Angeles, CA 90054-0960
(310) 692-5911

I've had *exceptionally* good service from them, living only about 50 miles northwest. Usually get it the next day via UPS! If you can get their catalog, man you've really made out. Over 2500 pages full of really neat stuff.

Not associated with either of the above, just a satisfied customer.

Ray Mote, W6RIC <rmote@rain.org> Oxnard, CA

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996
From: "TOM CLINTON" <TOM_CLINTON_at_AS0200@mail.hq.faa.gov>
Subject: Pick up only
Message-ID: <9606088368.AA836869182@mail.hq.faa.gov>

Gang,

I am the culprit on the latest "pick-up only" but missing location drill. This was strictly an oversight and I apologize! I am located in the Atlanta area. If I can offer any defense besides Alzheimer's, I AM listed in the Bafolks listing.

Sorry, Tom Clinton

Everyone is ignorant - just on different subjects! - Will Rogers

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996
From: knudsen@gvmail.ih.lucent.com
Subject: PRC-47 Xcvr
Message-ID: <9607082008.AA16526@bock.ih.lucent.com>

[This posting was a victim of our change from AT&T to Lucent,
so am re-sending it.]

Last Sunday at the Santa Fe hamfest (now held at Wheaton, IL),
among the way too many oddball items I picked up was
a PRC-47 Army/USAF xcver. This elegant rig rates a posting to
both VSS and BA, since it is mostly sorry state but uses
tube driver and final and a tube RF preamp (for EMP-proofing, I was told).

I already got some advice from the VSS List about hooking up 26-28VDC
to the funny conector.
She'll also take 115 VAC, but at 400 Hz, so I figure the USAF used this
set too. I've already been told that audio in/out is available
only on the goose-bump connectors, and the "Mic" is optimized for
a telephone carbon mic (traditions die hard).

I got no accessories, no docs (!), just the lid with carrying handle
and operating instructions inside. Any and all info and
comments will be gratefully rcvd.

Beautiful rig. Long, low and mean. Four roller inductors in the
antenna and plate tuning, supposedly good for loading short
random wire antennas. Digital tuning (with big knobs) from
2.0 to 11.999 MC, CW and USB only (kinda backwards for something
that covers only 80 and 40 phone bands). I've already got some advice
on reversing the sideband to LSB -- plus a few suggestions that
everyone should use USB on all Ham bands, which is sort of like
suggesting that all new home computers should run OS-9 -- a great idea,
but way too late.

The final tube has a base like a UHF 829B, but a single plate cap,
and was basically "grown" inside the rig -- no way to replace it without
major surgery. I guess when the tube blew you threw the set at
the advancing Congs, hoping to break a leg or two. Same applies
to the driver tube. The final's metal chimney has a thermal
overload sensor, in case you violate the recommended 10% (yes, ten
percent) T/R duty cycle. Anyway I'm surprised that the tubes
would not be field-replaceable -- must be at least one squad of
soldiers in Heaven still cursing this design to Hell.

I haven't yet found the (rumored to be two) RF amp tubes -- must be buried in the little metal boxes in the right-hand sections. I unscrewed and peered into just about everything, even pulled out the modular (!) power supply.

My tubes are probably good, cuz this rig looks like it was hardly ever operated, just lugged around a lot. Certainly not tinkered with, tho one inner cover screw is missing.

The antenna vacuum relay is really neat. The case and main chassis (at least) were made by a famous outfit in Cedar Rapids IA whose name I won't mention after missing out on a KWM-2A with a *complete* set of xtals and rear-mount AC-PS for \$585 asking.

The RX (and probably TX exciter too) seems to use 5 or even 10 bands, switched by the MC knob. The 100/10 KC knob pair tunes a slug rack in classic Collins style. The 1 KC knob just switches inside the synthesizer section, which includes 10 xtals in sub-min glass envelopes.

One ham there (not the seller) told me he'd used one on the air, talking to those hams who were near a multiple of 1 KC and on the "wrong" sideband.

Thanks for any info on this fascinating, and maybe useful, radio.
73, mike k aa9rg

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996
From: Paul Thekan <Paul.Thekan@pgtp.varian.com>
Subject: R-302/URR 22 Need Info
Message-ID: <2.2.16.19960708114913.0877eb5a@pgtp.varian.com>

Hello All

Picked up at Livermore yesterday a rather sad looking R 302. I have never seen one of these before and what caught my eye was the fact that the front panel layout looks almost exactly like a Scott SLRM. The R 302 I have was made by National and covers 540 kc - 18.6 mcs. Anybody know anything about this set?

Would like to obtain a copy of the manual for this set. Its got some warts ,but nothing that can't be fixed.

Thankyou
Paul N6FEG

Paul Thekan - Speaking for Himself
Paul.Thekan@pgtp.varian.com

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996
From: Tom.Daley@530.gigo.com (Tom Daley)
Subject: relay: fs: hq-170
Message-ID: <047_9607071737@gigo.com>

please reply to the fellow below, not me - 73

Message #204 - HAM Radio For Sale
Date: 07-04-96 02:21:08
From: Pat Finnerty
To: All
Subject: FS: Hammarlund HQ-170

For Sale:

Hammarlund HQ-170 reciever with matching external speaker.

Covers frequencies : 1.8 - 2, 3.5 - 4, 7 - 7.3, 14 - 14.4, 21 - 21.6,
28 - 30, 50 - 54 MHz

will work AM and CW/SSB.

Good condition. All original knobs, labeling. Front panel labeling in
exceptional condition. Analog Clock not working, but never disassembled
so it may just be guked up.

Will keep you warm on cold nights.

Clean it up and it's a museum piece that works great!

More(Y/n/=)?

Give this classic a home for \$125 obo. You ship or pickup in
Wilmington, NC or Myrtle Beach, SC area.

Please reply here or e-mail patfinn@infoave.net for further info.

Pat - KF4AXS

* SLMR 2.1a * To establish voice contact, please yell into keyboard.

--

: Fidonet: Tom Daley 1:203/530 .. speaking for only myself.

: Internet: Tom.Daley@530.gigo.com

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996

From: "Dennis L. Wade" <dwade@arb.ca.gov>

Subject: RME-45 questions

Message-ID: <199607082302.SAA09765@uro.theporch.com>

Boatanchorites:

While browsing the garage sale ads last Friday, I noticed one with "shortwave radios" in it. Intrigued, I went by the next morning, and \$20 later (and just ahead of someone else!), a dirty but complete RME-45 followed me home.

I've only had time for the most cursory examination, but no signals are to be heard as yet, only a soft hum emits from the matching speaker. All tubes are lit, no other obvious signs.

This raises some initial questions:

1. No manual came with it - anyone have one for repro costs?
2. There are two pairs of terminal lugs on the back, one labeled "R" and the other "B", with no jumpers between them. Which, if any, should be jumpered for proper operation?
3. And finally (for now), any history on this one? I noticed an ad in the Jan '46 QST "introducing" the RME-45. How long was it produced?

Thank you,
Dennis
Folsom, CA

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996

From: Kevin McDonald <kevin.mcdonald@tivoli.com>

Subject: Re: rqst: building info? WTB 30's ARRL HB's

Message-ID: <31E12191.41AD@tivoli.com>

Patrick Franzis wrote:

>

> Hi All,

>

> I'm a new subscriber to this list and I have a question that

> I would normally look in the FAQ for, but since one doesn't
> exist yet, I thought I'd give it a go.
>
> Where can I find some plans for building some simple tube-based
> rigs? I would imagine that old QSTs are a good source; could someone
> recommend a few projects/issues I might look for?
>
> Private email is OK and thanks in advance,
>
> -Patrick N10CJ

Collect ARRL handbooks!

I have a few from 1940 - 1970 absolutely gobs of projects and theory of each section etc.

For this use don't worry about condition you don't need to spend \$20 - \$30 for collector grade books - your going to have them open with abuse to the bindings etc.

Loose covers broken bindings etc. are OK if you want to build projects and can be found at \$5 to \$10 a shot.

Great BA adds in the back (1945!).

WTB:

P.S. If anybody is clearing out 1930's copies or upgrading to better condition copies I'd like to get a few. Loose covers etc. are OK as long as they are complete and not too \$\$\$.

Thanx and 73's

Kevin McDonald N50JF

kevin.mcdonald@tivoli.com

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996

From: BRIDGERS@gonzo.ccl.org

Subject: Salisbury NC hamfest report

Message-ID: <960708132732.2040e136@gonzo.ccl.org>

Whoever said the smaller hamfests had more treasures at lower prices was sure correct. The Salisbury hamfest while small at 200-400 attendees yielded some great BA treasures...

First on the list was a Heathkit AC-1 antenna coupler that I had prearranged to buy from Larry N4QY. It turned out to be in excellent condition; the only downside being it did not have original knobs. Still it followed me home...

Next, I had this inkling that I'd find something related to my interests in R-390/R-390A's. Sure enough, under a table - looking like almost an after thought - was a R-390 power supply, complete with two 26Z5's! Sitti* next to it were two boxes labeled R-390 parts. Even before looking into the

two boxes, the seller said he'd take \$5 for everything!!! I controlled myself and quietly said "ok". Inside the two boxes were athev:{audio deck, complete with two 6082's, crystal oscillator section, and the calibrator module, among othe{ w3pa{ts{_. Pay dirt for sure!

With my nose still twitching, I just knew there was more. Sure enough over the corner was a TMC exciteri] hidden under some other stuff{ {And what held the exciter? A very nice, but worn and rusty cabinet, just perfect for an R-390 or R-390A. I couldn't believe it. And at \$10 for both the exciter and the cabine{... I thought { had died and gone to heaven.

A nice Hallicrafters{{Sky budddy went home with{anothY+|r ham for \$75. I thought that was a bargain too.

Ples

a

se excuse the
message i
misspellings, but my el chep
ao
cheapo
editor will not me edit beyond the line o
I'm on, and sometimes like right
now it won't even let me do that.

Incidentally, I tested all of the R-390 modules after getting back home, and all of them work, Wow do I feel good or what!

73's Tom Bridgers@leaders.ccl.org

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996

From: dfrancis@usa.net (Dexter Francis)

Subject: Some tubes of interest...

Message-ID: <v01520d00ae06d37f8e7d@[192.156.196.110]>

Greetings all-

Here is a list of some of the more unusual and interesting tubes which have turned up in the inventory. If anyone is interested in any of these, please e-mail (dfrancis@usa.net), fax or phone me at (719) 260-5513.

-df

6A5G
6D5G
6JT6
6JT6A
6KD6
6LF6
6Q4

160L (Gentron - for that HA-14!)

809
812
812A
813
816
934

1614
4075
4093
4102
4848
5894
6227
6336A
6973
7360
7586
7735A
8025
8056
8068
8122
8165
8233
8447

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996
From: RNickels@smtpmail.micro.honeywell.com (Nickels, Bob)
Subject: SSB Converter
Message-ID: <1996Jul08.133800.1650.166312@smtpmail.micro.honeywell.com>

Joe is correct when he said:

>The best quick description of the HC-10 is that it is the last IF through
>Audio stages from a HQ-180. Input is 450 - 500 Kc. Has the slot filter.
>Great SSB adapter.

And you too could own one - all you have to do is find me the one that
matches my
GPR-90 to trade for it! I think they called it a GSB-1, and they must be

out there
somewhere...

73, Bob KE0T
ranickel@mwci.net

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996
From: MEC <danmec@inet.uni-c.dk>
Subject: Teleprinters
Message-ID: <Pine.3.89.9607080929.A29717-0100000@inet.uni-c.dk>

I have 2 superb Siemens T10 teleprinters collecting dust and will be glad to give them for the freight costs to anyone interested.

73 Rag 0Z8R0 in Copenhagen

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996
From: rmorgan@us.edu (Robert Morgan)
Subject: Thanks for info on URL for BA's
Message-ID: <19960708230046915.AAA170@P5-75.us.edu>

Thanks to all who replied with the URL info

Bob

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996
From: Andy Wallace <wallace@mc.com>
Subject: too far CW offset
Message-ID: <9607082114.AA00354@taku>

----- Begin Included Message -----

From: knudsen@gvmail.ih.lucent.com
Subject: Re: your new NCX-3

I wonder if that's any worse than the KWM-2 or other xcvers whose CW offset is much higher than normal listening pitch? Neither rig will let you really predict what freq you'll go back to the guy on.
A 3rd party who drops by will still hear you both on different freqs.

----- End Included Message -----

My Drake B-line and TR-3 both have the offset set to 1 kHz. On the B-line, that makes the 0.4 filter useless for CW unless I run them as separates... I had heard there was a resistor change to change the offset but I never heard from the person promising the info. Anyone got details? It could be similar with the NCX or KWM.

73,
--Andy
wallace@mc.com

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996
From: knudsen@gvmail.ih.lucent.com
Subject: Re: too far CW offset
Message-ID: <9607082140.AA16596@bock.ih.lucent.com>

I wonder if there's any real solution to CW offsets besides separate VFOs? You do like with separates -- tune your rx so the other guy's note sounds good, then zero-beat your tx to him, so you go back on his freq. I guess some CW xcvrs have a variable offset that works that way -- have to sell a couple music boxes and buy a Ten-Tech and see :-)
73, mike k aa9rg

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996
From: Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>
Subject: Re: too far CW offset
Message-ID: <199607082156.QAA27469@dlep1.itg.ti.com>

At 04:16 PM 7/8/96 -0500, you wrote:

>
>>I wonder if that's any worse than the KWM-2 or other xcvrs whose CW
>>offset is much higher than normal listening pitch?
..
>My Drake B-line and TR-3 both have the offset set to
>1 kHz. On the B-line, that makes the 0.4 filter useless
>for CW unless I run them as separates...

For years I wondered why Heath did such a foolish thing with the SB-102, HW-101, etc. Evidently they were just copying Collins.

I solved the offset problem (kinda) with my SB-102 by using an external VFO and running split frequency.

I'm beginning to wonder whether any of the old transceivers were any better

than the SB-102. I installed a 3rd party 250 Hz CW filter in mine and it worked well on CW except that running split frequency was a bit of a pain.

Of my other radios: My KW2000B has RIT but only one filter, doesn't have complete band coverage, and the CW key has to be wired into a rear panel octal connector. The little Eico 753 also has RIT but only a wide filter as is the case with the Swan 500.

Regards,
Bill Sorsby, N5BU

bill.sorsby@dlep1.itg.ti.com
Views expressed herein are no one's fault but mine.

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996
From: "August H. Johnson" <kg7bz@whitemtns.com>
Subject: Transformer help
Message-ID: <31E076F9.66D6@whitemtns.com>

Well, now that I've been busy tearing apart about 30 old home-brew chassis, I have lots more parts to build with. I also have several unknown transformers and chokes. I can hook up the transformers and at least measure the voltages, but the chokes will be a bit harder. Does anybody know about these numbers?

Transformers

Stancor PC-8401
Kenyon T 494 A
Thordarson T-6095
UTC S-57

Chokes

Thordarson 6345
" 6408
" 2353A
" T-67C49
" T-74C29
Kenyon S 12592 These are BIG!
Chicago Jefferson 3472-J

Modulation Transformer

Stancor A-3845

I also have lots of unmarked filter chokes of various sizes, is there a simple way to measure their inductance with a DC current flowing?

Thanks,

August Johnson KG7BZ
AMI 733

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996
From: "Lahlum-FLR111 Ross" <ross_lahlum@msmail.wes.mot.com>
Subject: Tube boxes
Message-ID: <9607082110.AA18562@kay.wes.mot.com>

Does anyone know of a source for plain cardboard tube boxes of various sizes (eg octal, submin, etc.)? I have a lot of loose tubes I'd like to organize some day...

Thx es 73,
Ross KB9JJR

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996
From: "Grant Youngman" <nq5t@gte.net>
Subject: Re: Tube boxes
Message-ID: <199607090010.TAA14353@uro.theporch.com>

>

> Does anyone know of a source for plain cardboard tube boxes of various sizes
> (eg octal, submin, etc.)? I have a lot of loose tubes I'd like to organize
> some day...

Antique Electronic Supply in Tempe, AZ has boxes and "egg carton" containers for tubes.

Grant/NQ5T

Grant Youngman -- NQ5T
nq5t@gte.net
<http://home1.gte.net/nq5t/index.htm>

Beautiful downtown Double Oak, TX - nr Dallas

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996
From: Scott Robinson <spr@earthlink.net>
Subject: Re: Tube boxes
Message-ID: <31E1ADC6.14A4@earthlink.net>

Lahlum-FLR111 Ross wrote:

>

> Does anyone know of a source for plain cardboard tube boxes of various sizes
> (eg octal, submin, etc.)?

Sure. Antique Electronic Supply (602) 820-5411 has
'em , in any size you like.

Regards,

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996
From: jml@spider.lloyd.com (Jim Lockwood)
Subject: Re: Tube Identification
Message-ID: <m0udJCz-001NdJC@spider.lloyd.com>

>A few days ago, Rick Blank asked for information on a JAN 6293 tube. I
>didn't see any responses from the group. So to add to the query, I have 30 +
>RCA 6293's that look identical to the 6146's. My TV-7D/U test set up is
>identical for the 6146 and 6293. What is a 6293?

Someone mentioned that these were rated for pulse service and I believe that
is correct. My HW-101 had a pair of these in it when I bought it and they
worked just fine for me in RF service. I once read an article by Bill Orr
about pulse rated tubes. If memory serves, these tubes are specially
selected from regular production runs for their ability to survive high
anode voltages. There may be other selection criteria also, but the high
anode voltage stands out in my mind as the key one.

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996
From: knudsen@gvmail.ih.lucent.com
Subject: Twinax input for R390A
Message-ID: <9607082125.AA16581@bock.ih.lucent.com>

There's been discussion pro and con about using the R390A's
balanced antenna input, and whether or not certain IBM LAN
connectors would mate with the RX.

I now have some first-hand info. At that "Santa Fe" hamfest, I found a guy selling trays full of various LAN connectors. They were down to 3/\$1.00, and by coincidence he had 3 Twinax type connectors left -- no two the same make or model, so I did the only wise thing and took all 3.

Each has the male connector that fits the R390A (yes, they all fit fine) and on the other end is an 8-pin modular phone jack. Only two pins of it are used, into a little transformer (balun?) whose other winding drives the twinax pins.

I easily cracked one plastic adapter open to figure out the above. Another was really nice -- had a couple of little screw-down connections in parallel with the phone-jack pins, so I was able to clip my antenna coax right onto those.

My findings: Using the "balun" and the balanced input added about 5 dB of sensitivity to the R390A. Unforch, it also led to considerable overload in the AM-BC bands, manifested by spurious mixing products and harmonics -- much like what I'd complained about on the SP-600 a couple years ago.

On the higher freqs, like 27 MHz CB, the extra sensitivity was nice. On 14 MHz band it was a tossup. On the lower bands the single-ended input avoided the overloading and worked generally better.

Disclaimers: I was testing the balanced input *with* the built-in balun. Maybe the BC band overloading was saturation of the balun. And neither Collins nor IBM ever certified that the balun's impedance ratio was matched to my antenna feed vs the RS390A.

Also the R390A may not have been aligned for the balanced input. Earlier I had tried feeding the unbalanced antenna coax into the balanced pins (with a jury rig) and re-aligning the front end to center the antenna trimmer, benn unhappy with the results, and gone back to aligning it on the unbalanced input. I know that on some bands the trimmer peak was out of range.

If I were to realign the slug racks on the Twinax balun, the rx might not only show more gain in gain, but less cross-mod and other weirdness. But someone recently posted here against the conventional wisdom that the balanced input was more selective ahead of the mixer, and the unbalanced was better. But then, someone also warned that those surplus Twinax LAN connectors don't fit the radio...

Bottom line: Twinax and balun for 17 MHz and up, single-ended below.

73 es enjoy your R390As, mike k aa9rg

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996
From: "Grant Youngman" <nq5t@gte.net>
Subject: Re: Twinax input for R390A
Message-ID: <199607090010.TAA14341@uro.theporch.com>

> Date: Mon, 8 Jul 1996 16:30:42 -0500 (CDT)
> Reply-to: knudsen@gvmail.ih.lucent.com
> From: knudsen@gvmail.ih.lucent.com
> To: Multiple recipients of list <boatanchors@theporch.com>
> Subject: Twinax input for R390A

> To: boatanchors@theporch.com

>

> There's been discussion pro and con about using the R390A's
> balanced antenna input, and whether or not certain IBM LAN
> connectors would mate with the RX.

I'd suggest seeing if Rick Mish would be willing to part with his
alignment info which "steers" the alignment to the unbalanced
connector.

My Mish refurbished R390A plays beautifully on ALL ranges with the
antenna on the unbalanced input connector. I'd give him a call, but
I'm out of town and don't have his number handy.

The more I use his receiver the more I love it. In a perverted sort
of way, its wonderful to have at least one BA appliance that has not
required -- or even hinted at the requirement -- for any "fiddling".

Grant/NQ5T

Grant Youngman -- NQ5T
nq5t@gte.net
<http://home1.gte.net/nq5t/index.htm>

Beautiful downtown Double Oak, TX - nr Dallas

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996
From: "Barry L. Ornitz" <u856010@eastman.com>
Subject: TX Offset adjustment for T-4X on CW
Message-ID: <Pine.ULT.3.91.960708183823.26132C-1000000@dua150.kpt.emn.com>

On Mon, 8 Jul 1996, Andy Wallace (wallace@mc.com) asked:

> My Drake B-line and TR-3 both have the offset set to
> 1 kHz. On the B-line, that makes the 0.4 filter useless
> for CW unless I run them as separates... I had heard there
> was a resistor change to change the offset but I never
> heard from the person promising the info. Anyone got
> details? It could be similar with the NCX or KWM.

On the Drake 4-line, it is a capacitor change. Look for C-1 on the carrier oscillator. Nominally, it is 10 pF and it is shorted out in TUNE and SSB. Its purpose is to shift the carrier oscillator into the crystal filter passband for CW or AM operation. A typical mod is to change this capacitor to a small trimmer capacitor. This mod was used most on RTTY and the frequency shift was adjusted for one of the shifts (or tones) popular at the time. For Andy's purpose, the adjustment can be made for a more pleasing offset. For narrow FSK like used today, it would be appropriate to use a diode keyer to achieve 170 Hz shift here rather than on the PT0.

But then, I always wondered why anyone would want to operate CW in transceive mode when separate control was so much more desirable (no chasing lesser rigs across the band!).

73, Barry L. Ornitz WA4VZQ ornitz@eastman.com

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996
From: davek@datacube.com (Dave Kirkpatrick X_TBD)
Subject: Valiant Loading Caps
Message-ID: <9607081354.AA16241@datacube.com>

Anchorites,

Does anyone out there have the following caps?
Sangamo types 300, 350, 600, 900, 1200 pf @ 1200 working VDC?

Also I've been having lots of problems trying to get the Valiant to resonate. I was using a short G5RV with an MFJ etc. That setup would resonate the Valiant II but not the I. The caps smoked a few times on the Valiant I. Thinks would heat up and the caps would melt then smoke. I have since strung up a diapole feed with ladder line and tune it with a Johnson Matchbox. So now with the new setup and several other problems fixed the Valiant I will load but it takes a 10,000 pf tacked in with aligator clips from ground to rf out (in paralld with the loading caps) to make the thing load up correctly. I put in a different 10,000 and it also made the rig load correctly.

Currently I have 4 sangamos in the loading seciton with approx the following values: 1200, 750, 400, 250 and nothing on the band switch. For some reason it loads up better with the 160/80 band cap out. (?). The current rack of sangamos may be degraded but as I said with the .01 it resonates with 8 mils on the grid, 330 plate with 120 watts approx out into the dummy load or antenna. I have cleaned all rotary switched and do not notice any arcing.

The questions are: 1. Has anyone come across this type of funny loading before? 2. Has anyone put in an air variable in place of the 4 loading caps and if so what value did you use. It looks to me that the range is 3200pf to 1000 pf on the 10 position loading switch. Any suggestion would be appreciated.

David N1RBM
davek@datacube.com

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996
From: "F r6fqHo!ht" <75121.100@CompuServe.COM>
Subject: VLF receiver
Message-ID: <960708040104_75121.100_FHI49-1@CompuServe.COM>

HI Gang!

Following me home this past Saturday was a VLF receiver, BA style with more inputs-outputs and knobs that I don't quite understand. There are probably many of you that know what this is for, never-the-less.

It is an EEC0 Model 881-M VLF made by Electrical Engineering Co. (Never heard of them)

The main unit is rack mounted and consists of 3 main plug in (slid in mini chassis).

The Left module, is the RF gain & blanking module with a pot for each.

The center module contains the center reading Signal level meter full scale from -20 to +20db. Below the meters is the frequency selection. Thumbwheel switches from 00.0 to 99.9 KC. Below the switches are the Tracking rate Selector and Phase error meter. Tracking rate selectable from .1 to 7 usec in 9 steps.

The third module contains a speaker, on/off switches for AC power or DC power.

The rear is "FULL" of BNC connectors. Labels include 100PPS out, 1KPPS out, 100K PPS out, 100KC ref in, Phase Det amp & Phase, Noise blanker, carrier out, 1KC IF out, LO out and last, VLF Antenna IN.

Anyone have an idea what this is for? I didn't use Omega, but isn't

this too old for Omega? What else is in the range if this beast? Anyone have a manual (HI-HI)

Oh yes, the rear also had a couple of Cinch-Blue connectors 16-pin style 1 labeled DR FUD output and the other labeled RECORDER.

That's all I know. Anyone venturing a guess, based on facts presented welcome to take a stab at identifying this.

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996
From: "F r6fqHo!ht" <75121.100@CompuServe.COM>
Subject: VLF Receiver
Message-ID: <960709002116_75121.100_FHI63-4@CompuServe.COM>

HI gang!

One of the members mentioned something about the VLF receiver message I opsted a couple days ago.

-----snip-----
<Subject: Re: VLF receiver
<
<Maybe a WWVB receiver? The LF one that the Heath "accurate clock"
<listens to.
-----end snip-----

Question! What WWVB frequency is in the LF range. My original message noted the frequency thumbwheel switches only went up to 99.9 kc so is WWVB below that?

Also, what is the "Heath accurate clock"?

Regards from Hawaii,
Raymond J. Cote

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996
From: aculbert@pps1-po.phyp.uiowa.edu
Subject: WINTERSET, IA SWAPMEET REPORT
Message-ID: <199607081344.IAA16617@ns-mx.uiowa.edu>

July 6 swapmeet at Winterset, IOWA (setting for Robert Waller's novel "Bridges of Madison County"). This is a semi annual event.

The BA types that I spotted and noted were:

Heath SB-220 very nice \$375
Heath SB-200 dirtier did not note the asking price
Hallicrafters "Civic Patrol" very nice \$40
Hallicrafters SX-99 fair \$60 Sold
Drake T-4XB, R-4B, MS-4 & AC-4 good condx \$300
Drake TR-4 fair \$100 Sold
Millen Grid dip meter w/ coils in metal stand very nice \$50
Gonset phone patch clean \$20
Gonset GSB-100 no documents and very dirty w/ broken dial cords \$50 Not sold
Hammarlund HQ-170 no documents, no clock and dirty \$75 Not sold
Heath HW-100 w/ HP power supply \$100 Sold
Heath SB-634 station monitor very clean \$20
Heath SB-100 w/ speaker, station monitor, and HP power supply and manuals \$150
Drake W-4 with nomograph scratched cabinet \$25
Drake MN-4 \$75
ARC-5 transmitter converted to a VFO \$5
Quite an assortment of microphones, one was an Astatic 10DA w/ TUG stand for \$10
that jumped into my bookbag!

Lots of odds and ends, boxes of tubes, meters, coil stock, etc.

NO Collins, NO Johnsons, No keys, NO bugs, all riceboxes and computers were
purposely ignored.

There was a beauty of an SX-88 in a fellows car that was being transported to
its new home in Iowa from Illinois.

One other listmember, Paul Nelson, spotted.

73 from the Corn state.

Al, K0AL

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996
From: bgraham@tecnet1.jcte.jcs.mil
Subject: WTB: Books
Message-ID: <199607081328.JAA20281@tecnet1.jcte.jcs.mil>

Subject: WTB Books

I'd like to buy the following books:

"Radio Boys" books

ARRL "Understanding Amateur Radio" The 1970 something edition with the blue cover in the larger format.

Bill
N5LMX/DA1WG

From boatanchors@theporch.com Mon Jul 8 10:48:05 1996
From: Brien Pepperdine <pepperb@gov.on.ca>
Subject: WTB:: Heath GR-81 regen receiver
Message-ID: <Pine.OSF.3.93.960707225304.14023B-100000@govonca2.gov.on.ca>

Does anyone have a Heath GR-81 regenerative receiver they would be willing to sell?

I have tried packet with no luck in my search, as well as the local HF swap shops. None offered, though my friend thinks there must be lots of them sitting unused in basements.

Anyhow, I'd like to get one for a project. It is intended to be slightly revised according to some tweaks my E.E. friend did on his (you should see his TenTec Argonaut! I am not THAT brave, but his revisions make that rig a nice rig for cw ragchewing and such, portable with all filter additions and fun stuff all inside the box).

Anyhow, if any GR-81 can be spared, see my sig. Thanks.

Brien
VE3VAW

Toronto

pepperb@gov.on.ca

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996
From: knudsen@gvmail.ih.lucent.com
Subject: Re: your new NCX-3
Message-ID: <9607081921.AA16495@bock.ih.lucent.com>

OK Andy. Well, the NCX-3 is a nice pretty little rig that's about as simple to operate as a tube SSB xcvr can be, and not quite as twitchy as the Collins KWM-2 (well, without 15 and 10M it's naturally

less fussy :-). So far I get good audio reports, without the bassy quality hams tell me about on the KWM-2.

As for the NCX-5, I fell in love with the beat-up one I saw last year, with its pseudo-digital readout (a la R390 family), capacitor VFO, and preselector geared to the main tuning (take that, Collins and everyone else!). The way the digits flip when you switch to 80M is just too much for a born gadget freak to pass up.

And while this rig was designed looooong after James Millen left National, the many gears and gadgets and rugged construction seem like a memorial to his legacy.

Besides, I've heard they are pretty good rigs and sound good on the air. Might even be decent on CW.

Which is another reason I got the NCX-3 -- I haven't researched it yet, but I think it does CW by bleeding RF, not by injecting a tone like those corn-state rigs. In fact, the carrier balance control is right on the front panel, and the manual tells you how to bleed carrier for -- AM!

The -3 also receives AM, not too badly, tho using the same 4-xtal lattice filter as is used for SSB makes the audio pretty bassy. And I must say the -3's SSB BW is a bit wide -- great for intelligibility, until some QRM comes by. Of course it's a barn door for CW, like most SSB rigs.

Audio gain is amazing -- I ahve to turn it almost clear off with my D-104. Would be nice to have ALC, but the power supply sort of provides that, by dropping the voltage if you overdirve (or mistune). I'm not being sarcastic when I say it's good to have a PS that quickly feeeps out when the plate current exceeds the rated 300 mA. A well-matched PS makes it harder to burn up your finals. Well, maybe you burn the PS isntead...?

I can rest one hand on the PS and feel my voice peaks modulating the 120 Hz vibration of the PS case top -- kinda fun.

The -3's RX uses old tubes -- 12BA6 and 12BE6 -- and has some background hiss, but probably don't need the extra sensitivity and S/N on 14 MC and down.

Now, if someone would like to ramble on about their NCX-5, I'm all ears...
73, mike k aa9rg

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996
From: Steve Ellington <n4lq@iglou.com>
Subject: Re: your new NCX-3
Message-ID: <Pine.GS0.3.93.960708155312.5503D-100000@iglou>

Hope I don't rain on anyone's parade but the NCX-3 is a sore spot, blight in my past and it was a dark day indeed when I got mine. Being only 16 years old and making rig money by delivering TV Guides, I wasn't exactly rich. My dad took me to the ham store where I traded in my NC-100 and DX-20 for a used NCX-3. I was on top of the world. Me, a kid , with a TRANSCEIVER!!! I rush down to my basement shack, plug in the power supply, key and antenna, turn on the power and tune across the cw band. CW...yes CW was my only mode. I love it! I heard a guy calling cq cq cq. I went back to him, no answer. I tried again and again. Finally he came back. "OM you are off frequency"....Finally I figured it out. That rig had NO CW OFFSET. In order to land on his freq. I needed to tune him in dead zero beat! Whoa!!

I was crushed. Not only did it not have cw offset, it had a crummy, slow vox for tr changeover. Yes, transceivers would take a few years of development before I could put up with them. I had to get out of this mess. My dad felt sorry for me and the next Saturday, back we went to the ham store. The friendly salesman gave me full trade in on a 75A1 and Johnson Pacemaker. A little more cash from dad closed the deal. What a relief.

Steve Ellington N4LQ@IGLOU.COM Louisville, Ky

From boatanchors@theporch.com Mon Jul 8 17:00:02 1996
From: knudsen@gvmail.ih.lucent.com
Subject: Re: your new NCX-3
Message-ID: <9607082019.AA16532@bock.ih.lucent.com>

Ok on the NCX-3 having no CW offset. I'll have to check that out. I wonder if that's any worse than the KWM-2 or other xcvers whose CW offset is much higher than normal listening pitch? Neither rig will let you really predict what freq you'll go back to the guy on. A 3rd party who drops by will still hear you both on different freqs.

So far I haven't tried the NCX-3's VOX (using PTT right now), but yes I will have to use it for CW. And even on PTT the rig takes a 1-sec delay to switch back to Rcv.

I suspect in those days, CW operators and xcvr users were two distinct groups...

I also heard that the NCX-3's lack of ALC caused a lot of overdriving and sideband splatter, and got the rig a bad rep. I'd better watch taht mic gain real close...

If you want another dark day to remember, what happened to the 75A1? I guess it was pretty well aged when you got it too.

73, mike k aa9rg

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996
From: Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>
Subject: Re: your new NCX-3
Message-ID: <199607082137.QAA22371@dlep1.itg.ti.com>

At 03:54 PM 7/8/96 -0500, you wrote:
>Ok on the NCX-3 having no CW offset.
>...<snip>...
>I also heard that the NCX-3's lack of ALC caused a lot of overdriving
>and sideband splatter, and got the rig a bad rep. I'd better watch taht
>mic gain real close...

As I recall the NCX-3 looks kinda similar to the Eico 753 tri-bander... Say, hows the drift on that NCX-3? BTW, the 753 has both RIT and ALC. And the 753 doesn't have that annoying 1-sec delay when releasing the PTT button, either. Maybe you should have picked up that 753 you saw rather than the NCX-3, Mike. ;-)

I'm kidding, of course. Glad to know about the limitations of the NCX-3, as I've had one on my wish list for a while. The amount I'd be willing to spend for one just went down, though.

I'll just bet Eico would've sold lots more 753's if it had been stable.

Regards,
Bill Sorsby, N5BU

bill.sorsby@dlep1.itg.ti.com
Views expressed herein are no one's fault but mine.

From boatanchors@theporch.com Mon Jul 8 20:29:40 1996
From: knudsen@gvmail.ih.lucent.com

Subject: Re: your new NCX-3

Message-ID: <9607082150.AA16605@bock.ih.lucent.com>

OK Bill. Yes, the guy trying hard to sell his Eico 7-drifty did mention that it had ALC -- didn't know about RIT, but that wuda been nice.

QSL on the sloooooow release of the NCX-3's PTT, and I hear the VOX is just as slow; haven't tried that yet. Even the KWM-2 takes half a second or so to come back to Rcv, and a lot of ops today don't allow any changeover time at all -- guess those riceboxes are quicker.

The Eico just didn't look all that great, the knobs were loose, the PS was huge and ugly, and it was late and hot (the day, not the rig :-)

Oh yes, the seller did mention it had the "Dr Drifty Mods", so maybe its major bug had been fixed too.

The NCX-3 seems very stable. Much much better than my KWM-2 with its shorted USB/LSB switching diode, which really brings back the joys of knob twiddling until I hire some mice to go in there and fix that diode.

73, mike k aa9rg